



**Clean Michigan Initiative  
Clean Water Fund Grant**  
2001-0003

**Orleans Township**

Telephone: (616) 761-3269

Fax: (616) 761-3616

## **Orleans Township Long Lake Sanitary Sewer**

January 15, 2002 through July 16, 2003

Located in Ionia County, Long Lake had been plagued by contamination caused by failing on-site septic systems surrounding the water body. The goals of this project were to reduce contamination of ground and surface water caused by the failing septic systems of residential homes around Long Lake. As a result of this project, construction of a sanitary sewage collection system was completed, including a series of sanitary lift stations and a centralized wastewater treatment facility. Two hundred and five failing on-site septic systems were identified and removed prior to connection with the new sanitary sewer collection system.



**Grant Amount: \$ 1,000,000**

**Match Funds: \$ 2,415,690**

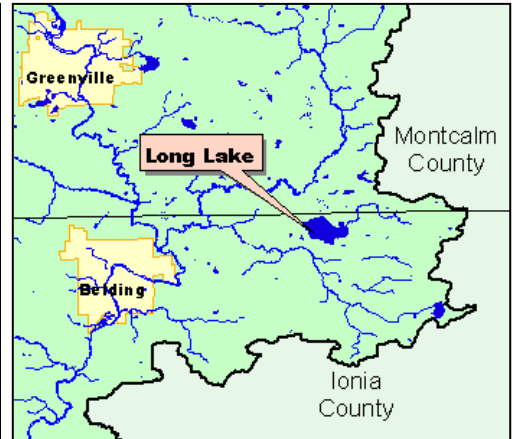
**Total Amount: \$ 3,415,690**

### **Best Management Practices:**

- Identified and removed 205 on-site wastewater disposal systems
- Series of sanitary sewage lift stations
- Sanitary sewage collection system
- Centralized wastewater treatment facility

### **Annual Load Reductions:**

- 1,150 lbs. Phosphorous
- 6,570 lbs. Nitrogen



Arial Photo of Sewage Treatment System with Lake in Background

### **Partners involved:**

- Orleans Township Residents
- Michigan Department of Environmental Quality
- USDA-Rural Development
- Fleis & VandenBrink Engineering, Inc.
- Varnum, Riddering, Schmidt, & Howlett
- Glawe Inc.
- Kamminga & Roodevoets, Inc.